

Key Questions for Spinal Fusion

Draft 4

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In the group of patients who have chronic (>3 months) lumbar pain excluding those with;

- radiculopathy
- functional neurologic deficitis (motor weakness or EMG findings of radiculopathy)
- spondylolisthesis (>Grade 1)
- isthmic spondylolisis
- · primary neurogenic claudication associated with stenosis
- fracture, tumor, infection, inflammatory disease
- · degenerative disease associated with significant deformity
- 1. What is the evidence that spinal fusion improves back pain and/or functional status?
- 2. What is the evidence that spinal fusion improves back pain and functional status more effectively/efficiently than non-operative approaches?
- 3. What is the evidence to compare the safety (perioperative, long-term risks and those associated with reoperations) of spinal fusion (anterior, posterior or combined fusion) compared to non-operative approaches?
- 4. What is the evidence to compare the cost of spinal fusion (anterior, posterior or combined fusion) to non-operative approaches?
- 5. In patients being considered for spinal fusion what is the evidence that preoperative discography is associated with outcomes (pain, function, adverse events) of fusion surgery?
 - What is the likelihood that positive discography accurately predicts favorable outcome after fusion?
- 6. In patients being considered for spinal fusion what is the evidence to describe the test reliability of provocative discography (subjective response)?
 - test-retest
 - intra-reader
 - inter-reader
- 7. What patient characteristics (i.e. workman's compensation population, patients with chronic pain, psychological distress, and age-groups) influence benefits and harms of discography and spinal fusion?